

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

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1. (currently amended): A method of transmitting signals to a satellite having at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part, and means ~~(45, 47, 49, 51)~~ for receiving the signals from the various antennas, the method ~~including~~ comprising the following steps:

- transmitting the signals as spread spectrum modulated signals;<sub>i</sub>
- receiving the signals via the at least two antennas ~~(3, 5)~~<sub>i</sub>;
- summing the signals received via the at least two antennas and delaying at least one of the ~~received signals~~ received via the at least two antennas so that ~~the a~~ path difference between the summed signals is at least one chip of the spread spectrum modulation;<sub>i</sub> and
- demodulating the summed signals.

2. (currently amended): A method of transmitting signals from a satellite having at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part, and means ~~(55, 56)~~ for sending the signals to the various antennas, the method ~~including the following steps~~ comprising:

- spread spectrum modulating the signals to be transmitted;<sub>i</sub>
- sending the spread spectrum modulated signals to the at least two antennas;<sub>i</sub> and

- transmitting the spread spectrum modulated signals via the at least two antennas, the spread spectrum modulated signals transmitted via the at least two antennas being offset by at least one chip of the spread spectrum modulation.

3. (currently amended): The method according to claim 2, ~~characterized in that the modulation step includes~~ wherein the spread spectrum modulating step comprises modulating the signals ~~intended for to be transmitted via~~ said at least two antennas using spreading sequences offset by at least one chip.

B1 4. (currently amended): The method according to claim 2 or claim 3, ~~characterized in that~~ wherein the sending step ~~includes~~ comprises applying a time-delay to the signals intended for at least one of the at least two antennas.

5. (currently amended): A method of transmitting signals from a satellite having at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part, and means ~~(55, 56)~~ for sending signals ~~to the various antennas~~, the method ~~including~~ comprising the following steps:

- spread spectrum modulating the signals to be transmitted;
- sending the modulated signals to the at least two antennas; and
- transmitting the signals via the at least two antennas, the signals ~~intended for~~ transmitted via the ~~various~~ at least two antennas being spread spectrum modulated using different sequences.

6. (currently amended): A satellite ~~having~~ comprising:

at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part ~~and~~;

receiver means ~~(45, 47, 49, 51)~~ for receiving the sum of the signals ~~from~~ received by the  
~~various at least two~~ antennas, ~~the satellite being characterized in that~~

wherein the receiver means ~~include~~ comprise means for demodulating a spread spectrum  
signal, and ~~in that~~

the absolute difference between ~~the~~ respective transmission times of the signals  
~~transmitted to~~ received by the receiver means via the at least two antennas is greater than one chip  
of ~~the~~ a spread spectrum modulation.

7. (currently amended): The satellite according to claim 6, ~~characterized in that~~ wherein  
the receiver means ~~include~~ further comprise a coupler ~~(47)~~ for signals from the antennas and at  
least two receivers ~~(49, 51)~~ connected to the coupler.

8. (currently amended): The satellite according to claim 6 or claim 7, ~~characterized in~~  
~~that it includes~~ further comprising time-delay units ~~(53)~~ between at least one antenna of the at  
least two antennas and the receiver means.

9. (currently amended): The satellite according to claim 8, ~~characterized in that~~ wherein  
the time-delay units ~~include~~ comprise at least one of a coaxial connection, a delay line or a  
surface acoustic wave filter.

10. (currently amended): A satellite ~~having~~ comprising:  
at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part; and  
transmitter means ~~(55, 56, 57)~~ for ~~sending~~ transmitting signals ~~to~~ via the at least two  
antennas, ~~characterized in that~~

wherein the sending-transmitting means include-comprise means for spread spectrum modulating the signal to be transmitted signals, and in that

~~the an~~ absolute difference between ~~the~~ respective transmission times of the signals transmitted by the transmitter means via the at least two antennas is greater than one chip of the spread spectrum modulation.

11. (currently amended): A satellite ~~having~~ comprising:

at least two antennas ~~(3, 5)~~ whose radiation patterns overlap, at least in part; and

transmitter means ~~(55, 56, 57)~~ for sending signals to the ~~various~~ at least two antennas, ~~the satellite being characterized in that~~

wherein the sending-transmitter means include-comprise means for spread spectrum modulating the signals intended for transmission via the various at least two antennas using different sequences.

12. (currently amended): The satellite according to claim 10 or claim 11, ~~characterized in that~~ wherein the transmitter means include-comprise:

at least two transmitters ~~(55, 56)~~ in a cold redundancy configuration; and

a coupler ~~(57)~~ for sending the signals from the transmitters to the at least two antennas.

13. (currently amended): The satellite according to claim 10 or claim 11, ~~characterized in that it includes~~ further comprising time-delay units between the transmitter means and at least one antenna of the at least two antennas.

AMENDMENT UNDER 37 C.F.R. § 1.111  
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14. (currently amended): The satellite according to claim 13, ~~characterized in that~~  
wherein the time-delay units include comprise at least one of a coaxial connection, a delay line  
or a surface acoustic wave filter.

B1 15. (Previously presented): The method according to claim 1 or claim 2 which excludes  
phase shifting of the signals.

16. (Previously presented): The satellite according to claim 10 or claim 11 which is free  
of means for phase shifting the signals.

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